

## POSTER SESSION 2: 10:45 – 11:45 A.M.

#	STUDENT RESEARCHER	PROJECT TITLE	ADVISOR	DEPARTMENT
45	Michael Dowd	Development of a Paper-Based Colorimetric Test to Detect Oxytocin	Dr. Marya Lieberman	Chemistry and Biochemistry
46	Maxwell G. Tetrick	Getting High on Science: Surface-Enhanced Raman Spectroscopy for Illicit Drug Detection	Dr. Jon P. Camden	Chemistry and Biochemistry
47	Maria Amenabar Farias	Stay the Course™ Improves Community College Persistence and Completion	Dr. James Sullivan	Economics
48	Kendrea Beers	Exhaustive Heterogeneous Graphlet Counting for Network Alignment	Dr. Tijana Milenkovic	Computer Science and Engineering
49	Kevin Choy	A Web-Based Tool for Flexible Learning-Free Segmentation And Reconstruction for Sparse Neuronal Circuit Tracing	Dr. Walter Scheirer	Computer Science and Engineering
50	Aidan James Draper	Classifying marshland plant species by processing light reflectance in satellite images	Dr. Jason McLachlan	Biological Sciences
51	Diego Fernández	Lobster: Harnessing Opportunistic Clusters with a Workflow Management Tool for CMS Data Analysis	Dr. Kevin Lannon	Physics
52	Jon Genty	Classifying Aging- and Non-Aging-Related Genes in Dynamic Protein-Protein Interaction (PPI) Networks	Dr. Tijana Milenkovic	Computer Science and Engineering
53	Nicholas Grasley	Using Crowd-Sourced Genealogy to Analyze the Long-Run Effects of Prohibition	Dr. Kasey Buckles	Economics
54	Rachel McCarthy	Predicting Body Image through Self- Esteem and Social Networks	Dr. David Hachen	Sociology
55	Nicholas Potteiger	Archiving Workflows Onto Cloud Based Storage	Dr. Douglas Thain	Computer Science and Engineering
56	Jeremy Speth	Generation and Matching of Bipartite Graphs	Dr. Peter Kogge	Computer Science and Engineering
57	Yuekai Zhang	Knowledge Diffusion in Global Commerce, Investment and Research	Dr. Paul Brenner	Computer Science and Engineering
58	Alison Doxey	Long-Run Effects of College Openings: Evidence from U.S. Historical Data	Dr. Kasey Buckles	Economics
59	Bailee Egan	Investigating Patterns of the Gut Microbiome in Long-Tailed Macaques	Dr. Hope Hollocher	Biological Sciences
60	Elisabeth Kerns	Perovskite Characterization and Degradation	Dr. Prashant V. Kamat	Chemistry and Biochemistry
61	Gabriela Aquino	"Use Your Words": The Role of Emotional Security on Interparental Conflict	Dr. E. Mark Cummings	Psychology
62	Daniel Copeland	Landscape Effects on the Gut Community of Long-Tailed Macaques	Dr. Hope Hollocher	Biological Sciences
63	Aurora Hurtado Olivas	Probing the Mechanism of Osmium Mediated Carbon-Sulfur Bond Cleavage Using Unsymmetrically Substituted Ligand	Dr. Seth N. Brown	Chemistry and Biochemistry
64	Eduardo Morales-Rivera	Comparison of Two Dual Spring-Loaded Inverted Pendulum Models of Sloped Walking	Dr. James Schmiedeler	Aerospace and Mechanical Engineering

65	Quentin Colo	Comprehensive Case Management to Lift Families Out of Poverty	Dr. James Sullivan	Economics
66	Corey Atwell	Influence of Annealing on the Controlled Growth of CsPbBr <sub>3</sub> Nanocrystals	Dr. Prashant V. Kamat	Chemical and Biomolecular Engineering
67	David Brown	Designing Energy Efficient Diafiltration Units around Membranes that Separate Molecules of Comparable Size	Dr. William Phillip	Chemical and Biomolecular Engineering
68	Anna Kluender	Understanding Lower Critical Solution Temperature Ionic Liquids in the Development of Revolutionary Absorptive Cooling Fluids	Dr. Brandon Ashfeld	Chemistry and Biochemistry
69	Angela Abarca Perez	Investigation of the sorption behavior of organic acids onto catalytic- and food-grade titanium dioxide nanoparticles	Dr. Kyle Doudrick	Civil and Environmental Engineering and Earth Sciences
70	Mariana Calderon	Casting polyvinylidene fluoride (PVDF) using the vapor-induced phase separation (VIPS) method	Dr. William Phillip	Chemical and Biomolecular Engineering
71	Nishtha Gupta	Elucidating fundamental processing property relationships for chemically patterned membranes	Dr. William Phillip	Chemical and Biomolecular Engineering
72	Erin O'Brien	Improving Drug Efficacy Through Supramolecular Affinity	Dr. Matthew Webber	Chemical and Biomolecular Engineering
73	Rebecca Radomsky	Design of Experimentation to Test Faradaic Efficiencies of Plasma-Liquid Systems	Dr. David B. Go	Chemistry and Biochemistry
74	Margo Waters	Magneto-Electric Silica Nanoparticles (Mag-E-Si-Ns) for Combinatorial Chemotherapeutics Against Metastatic Cancers	Dr. Prakash Nallathamby, Dr. Paul Helquist	Aerospace and Mechanical Engineering, Chemistry and Biochemistry
75	Laurel Anne Lown, Mary Green	Validation of the MicroBio PAD by testing drinking water quality in Nepal	Dr. Don Paetkau	Biology
76	Heather Miller	The Development of a Yeast Biosensor for the Detection of Prednisone	Dr. Don Paetkau	Biology
77	Erica Slogar	Copper(I) & Copper(II) binding to the ectodomain of human Ctr1	Dr. Kathryn Haas	Chemistry, Physics
78	Gabriel Cruz-Ruiz	New nanocapsules for drug delivery	Dr. Bradley Smith	Chemistry and Biochemistry
79	Olanrewaju Olafuyi	Computation Spectroscopic Analysis of Alpha Amyloids of PSM $\alpha$ 3	Dr. Arnaldo Serrano	Chemistry and Biochemistry
80	Robert Ornelaz	Does Cultural Conflict Affect educational Attainment?	Dr. Rory McVeigh	Sociology
81	Carolina Ponce	Reproductive Health Fears Present in Nahua Indigenous Women: An Analysis of Interactions with Biomedical Personnel	Dr. Vania Smith-Oka	Anthropology
82	Loren Hahn	Turbomachinery Sensing: Analysis and Optimization	Dr. Thomas Pratt	Electrical Engineering
83	Henadz Krukovich	Tracking multiple targets using Dual-Polarized Antennas with Software Defined Radios	Dr. Thomas Pratt	Electrical Engineering
84	Marina Malone	Integrated Task and Motion Planning for Robotic Systems	Dr. Hai Lin	Electrical Engineering
85	Daniel Riehm	Using Augmented Reality to Control a Six-Axis Robot Arm	Dr. Richard Billo	Electrical Engineering

<b>86</b>	Robert Schenck	Wireless Communications Interface and Services for Drone Swarms	Dr. J Nicholas Laneman	Electrical Engineering
<b>87</b>	Jeremiah Yohannan	Human-Robot Collaboration	Dr. Hai Lin	Electrical Engineering